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IN THE ABSTRACT

Please remove the Abstract beginning on page 12 and replace with the following new Abstract.

---A membrane, that can be manufactured in that a polymer or polymer mix is shaped as desired, is charged with a gas at atmospheric pressure before or after shaping, then the gas-charged polymer is foamed at a temperature above the glass transition temperature of the polymer/gas mixture, and lastly the foam structure is stabilized by cooling, is characterized in that the gas charged polymer is foamed using an amount of 0.05 to 4.5% by weight of a fluid that dissolves or swells the polymer. This membrane is preferably used for medical purposes.---